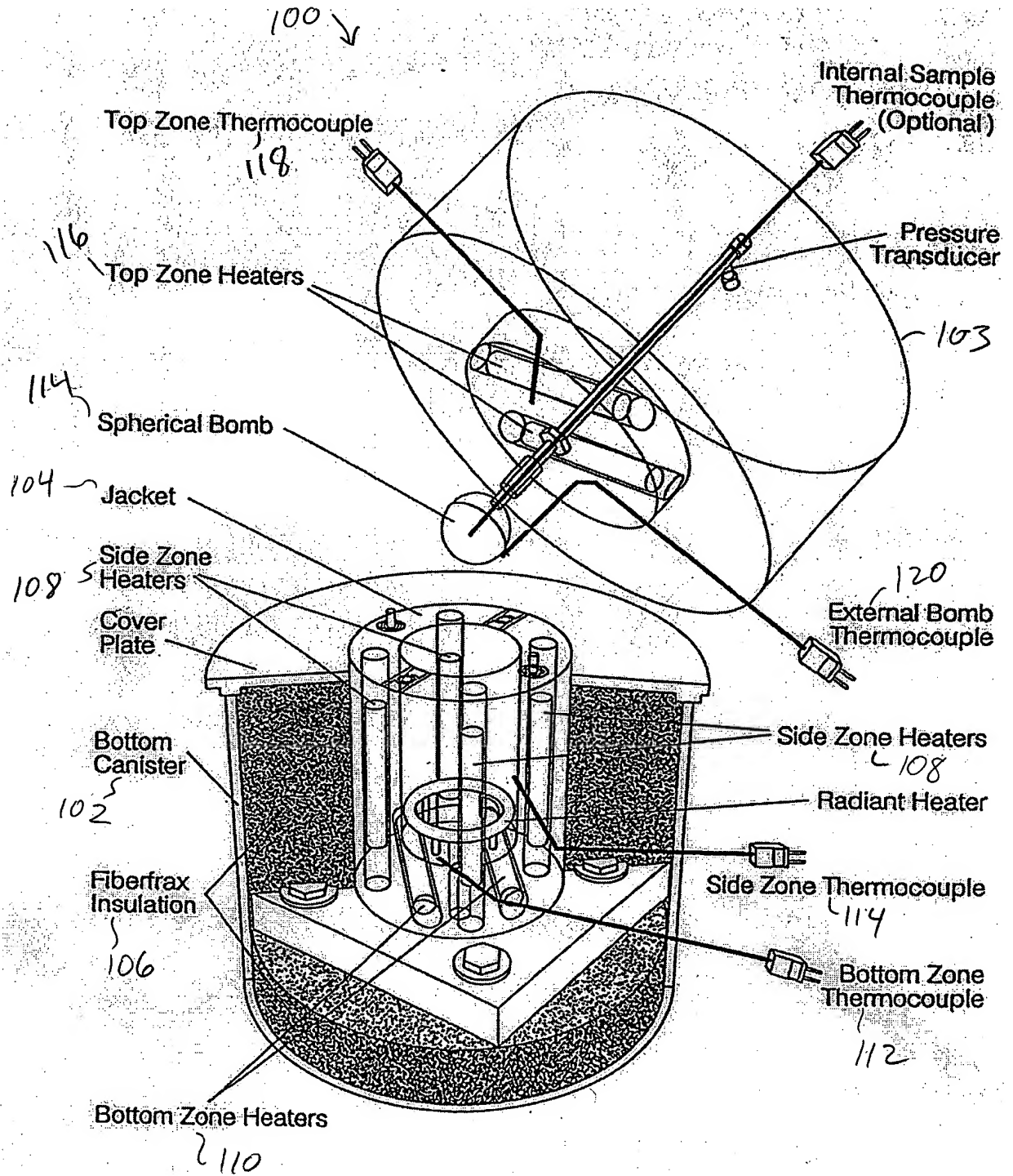


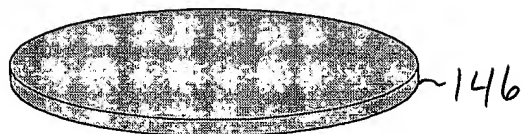
FIG. 1



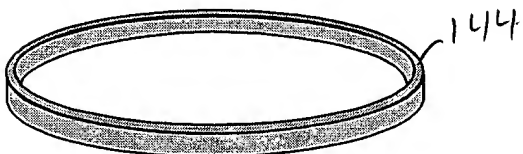
0473599 66221-650

F16.2

130
↓



Casing Top (Negative Terminal)



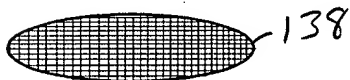
Gasket



Stainless Steel Spacer



Lithium Metal (4)
Counter/Reference Electrode



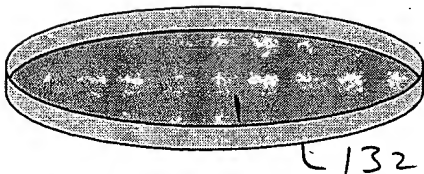
Stainless Steel Mesh



Separator (2)



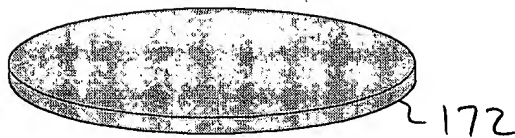
Working Electrode



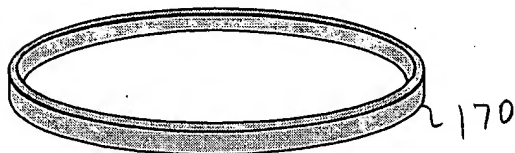
Casing Bottom (Positive Terminal)

66621-6962460

160
↓



Casing Top (Negative Terminal)



Gasket



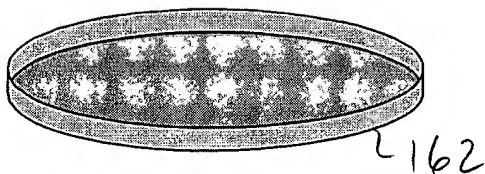
LiCoO₂ Electrode



Separator (3)



Carbon Electrode



Casing Bottom (Positive Terminal)

FIG. 3

0443369-12999

65622T-695E460

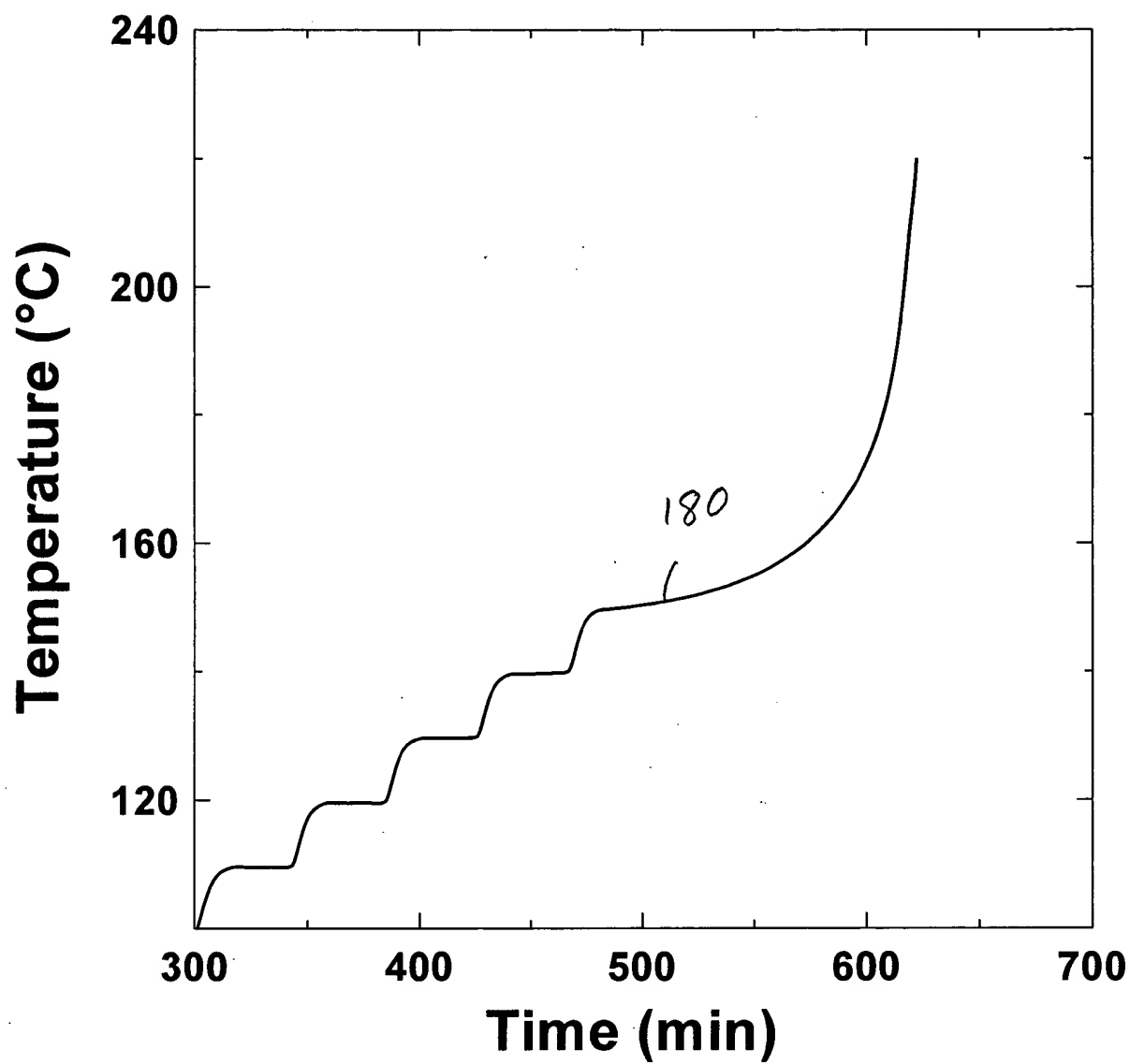
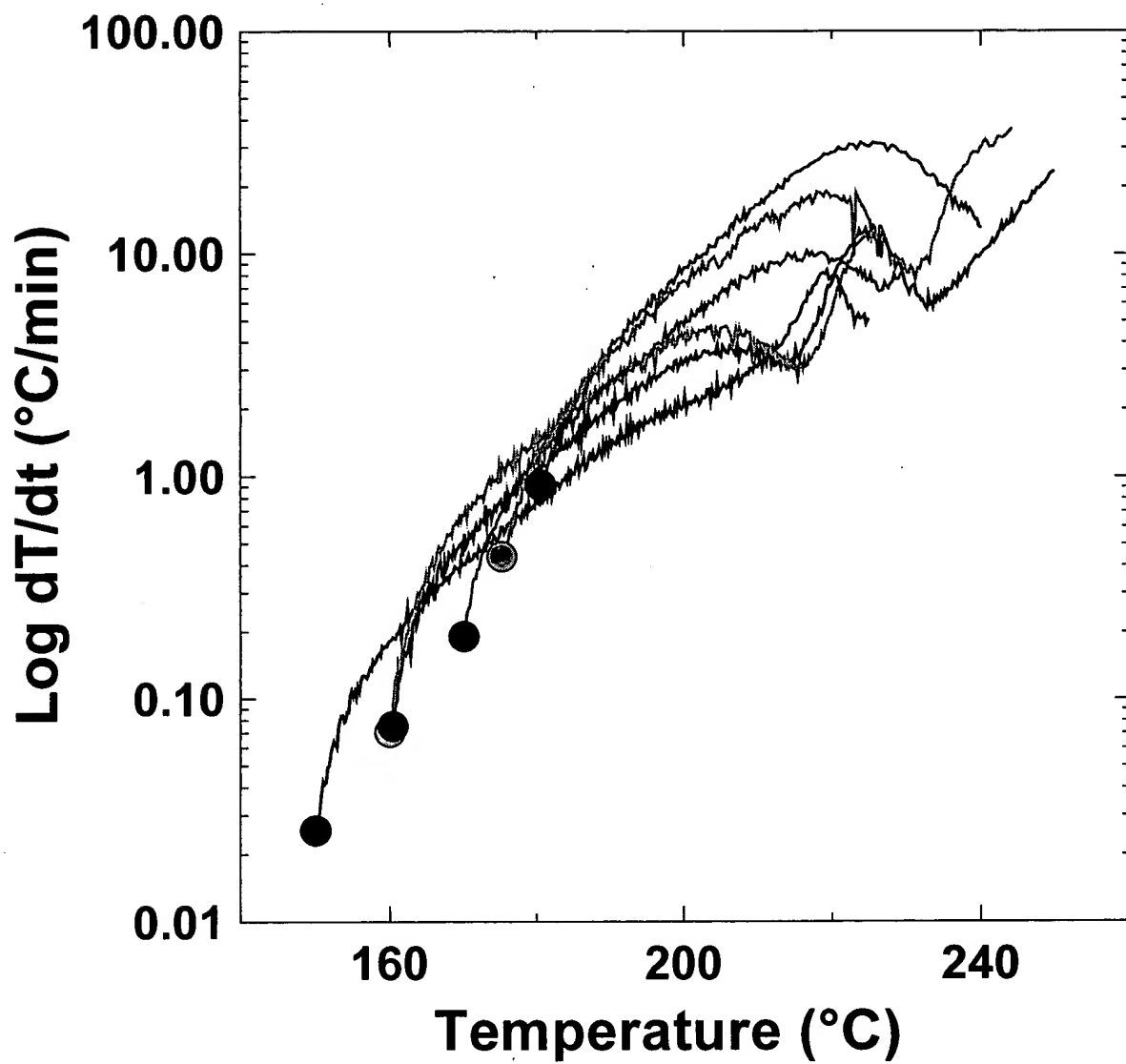


FIG. 4

66622T" 695E/450



n://happy/data/dean/papers/cobalt 1/fig 2.grf

Fig. 5

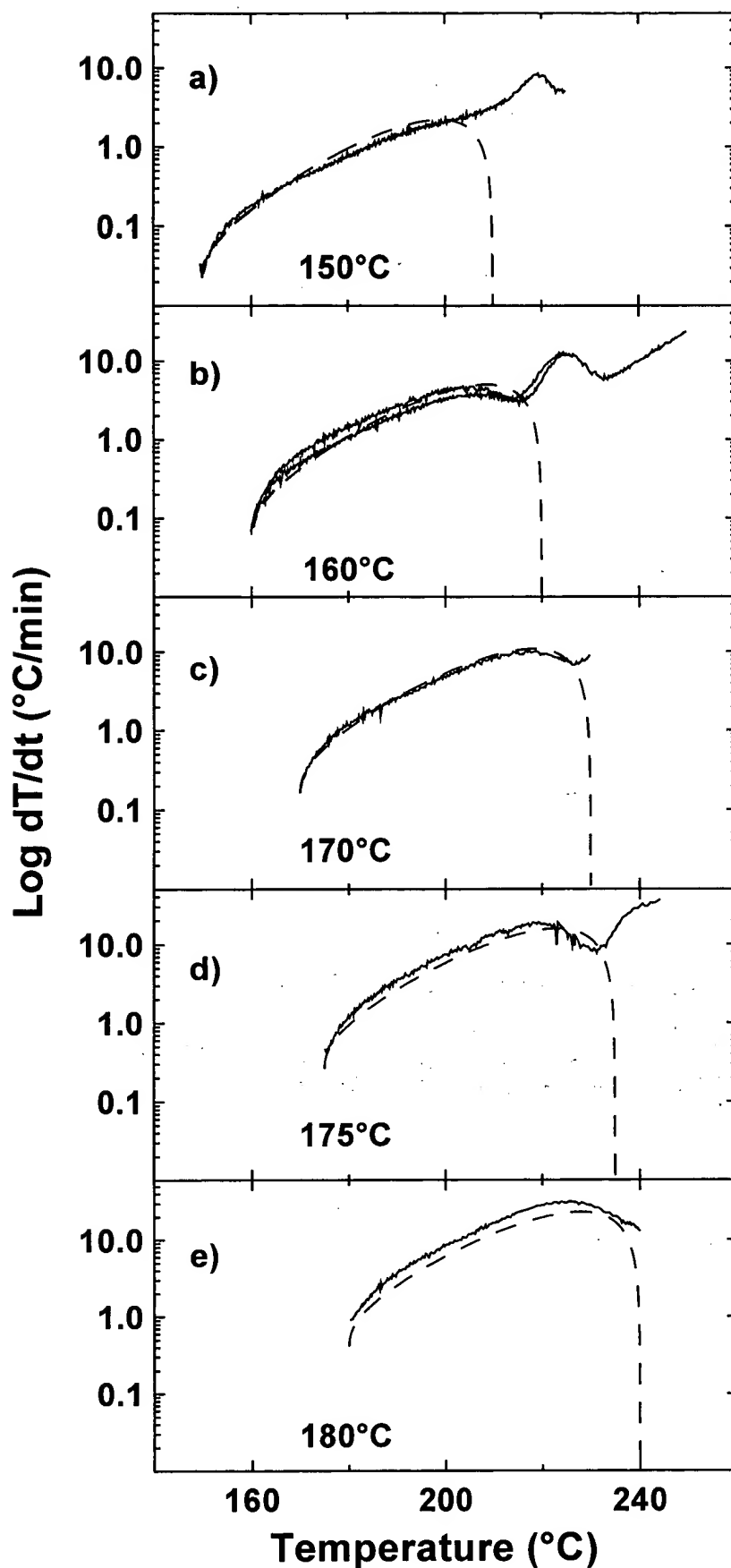


FIG. 6A

FIG. 6B

FIG. 6C

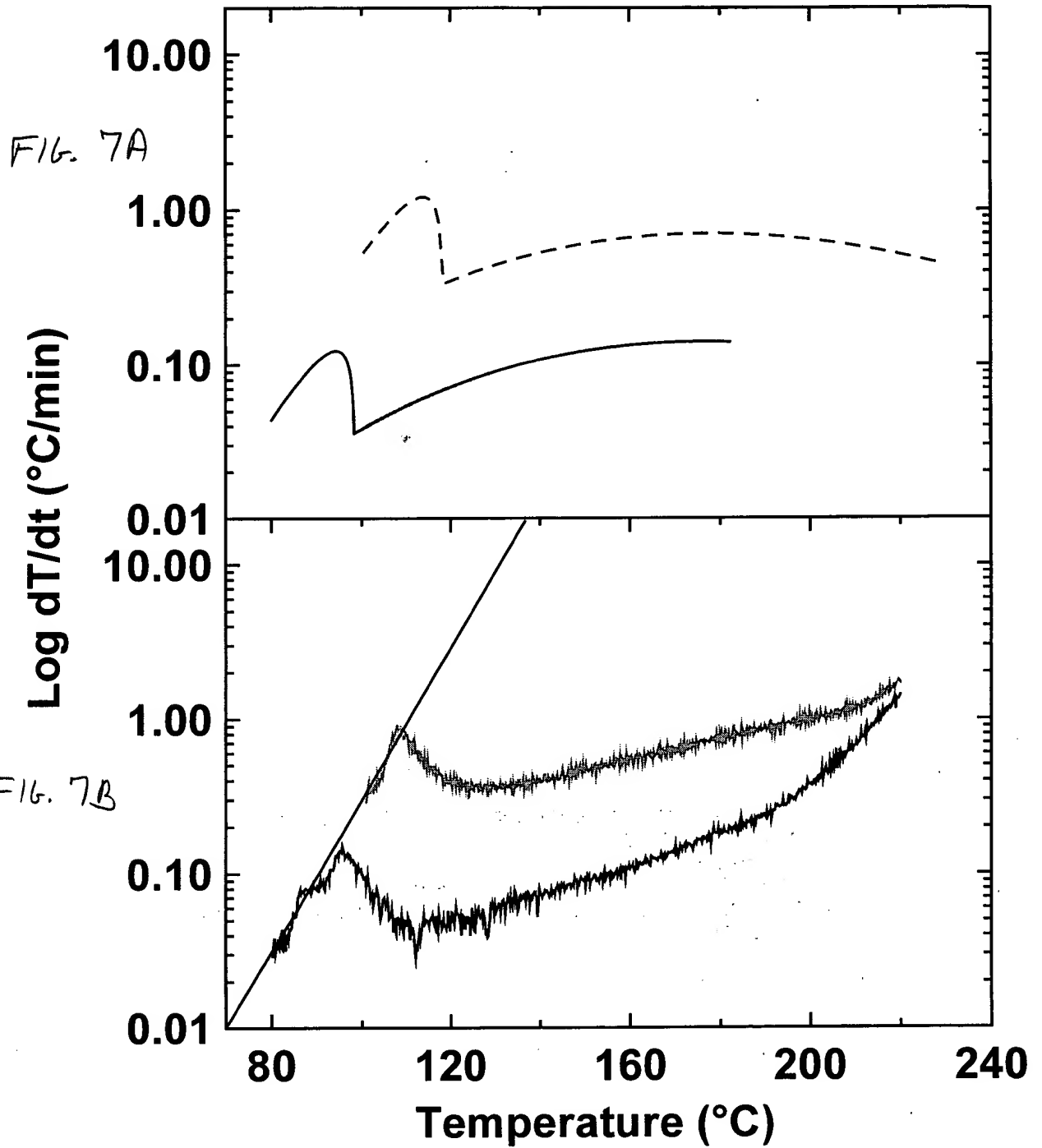
FIG. 6D

Figure 7. - $\text{Log } dT/dt$ versus T for Li_xCoO sample 1 at 4.2 V, initially heated to a) 150, b) 160, c) 170, d) 175 and e) 180 $^{\circ}\text{C}$. The dashed lines are the calculations using $E_a = 1$ eV, $\beta = 0.2$ and $\gamma = 1.9 \times 10^{16} \text{ min}^{-1}$.

FIG. 6E

$$X_1 = 0.75, X_2 = 0.1, X_3 + X_2 = 0.93, E_1 = E_2 = 1.4\text{eV}$$

$$h_1/C = 400, h_2/C = 150, \gamma_1 = 4 \cdot 10^{15}, \gamma_2 = 7.5 \cdot 10^{16}$$



06473569-12999

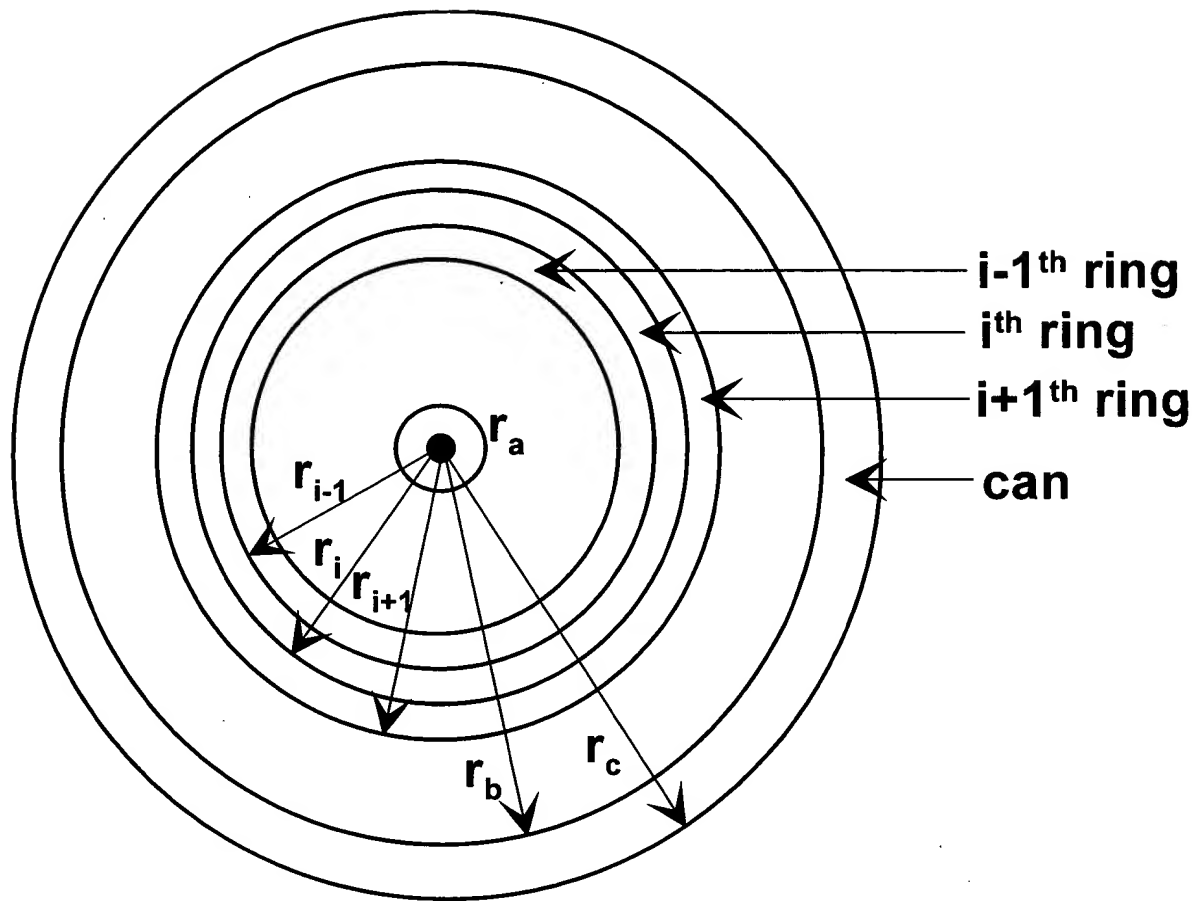


FIG. 8

09473569-122999

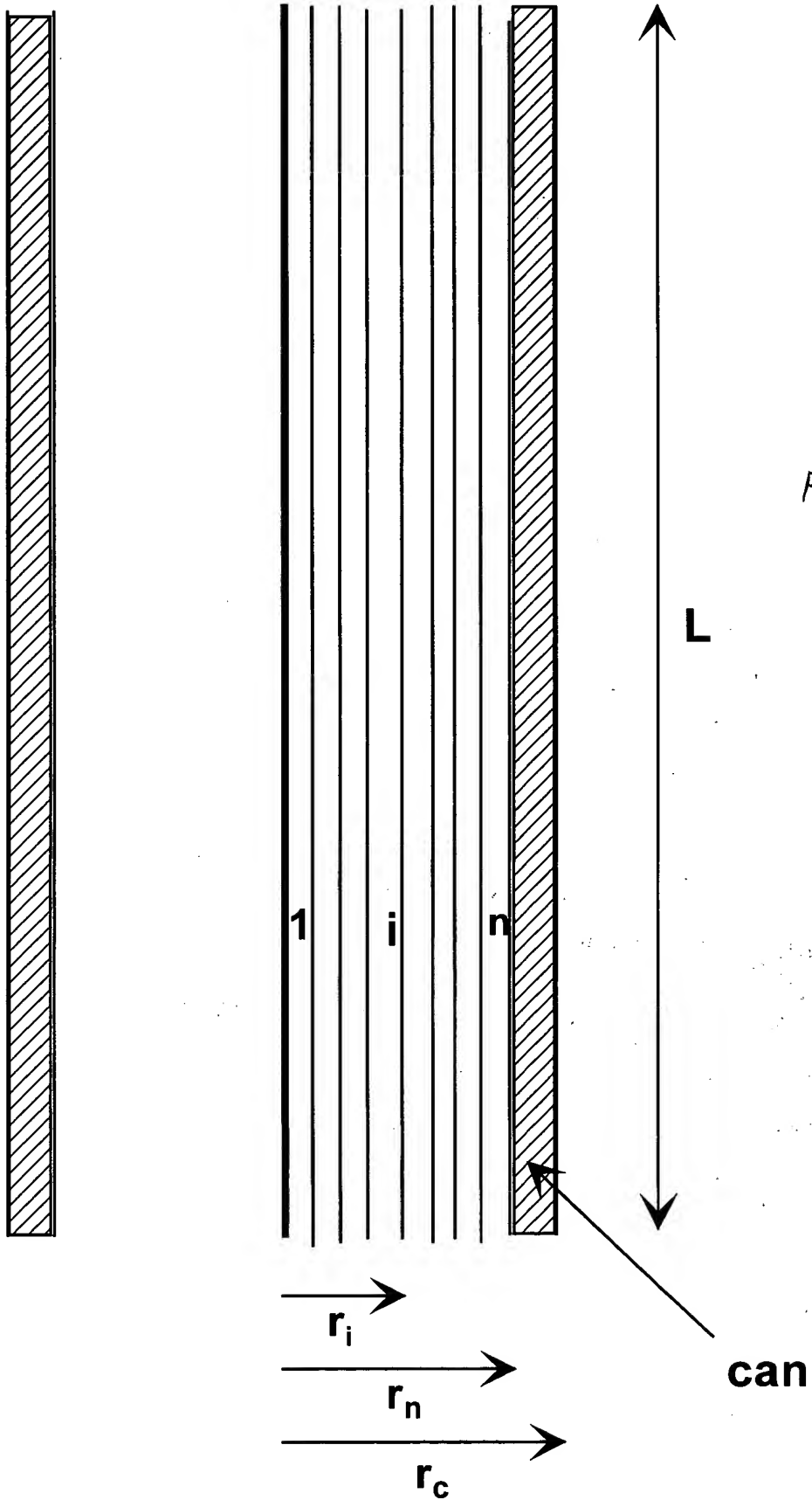
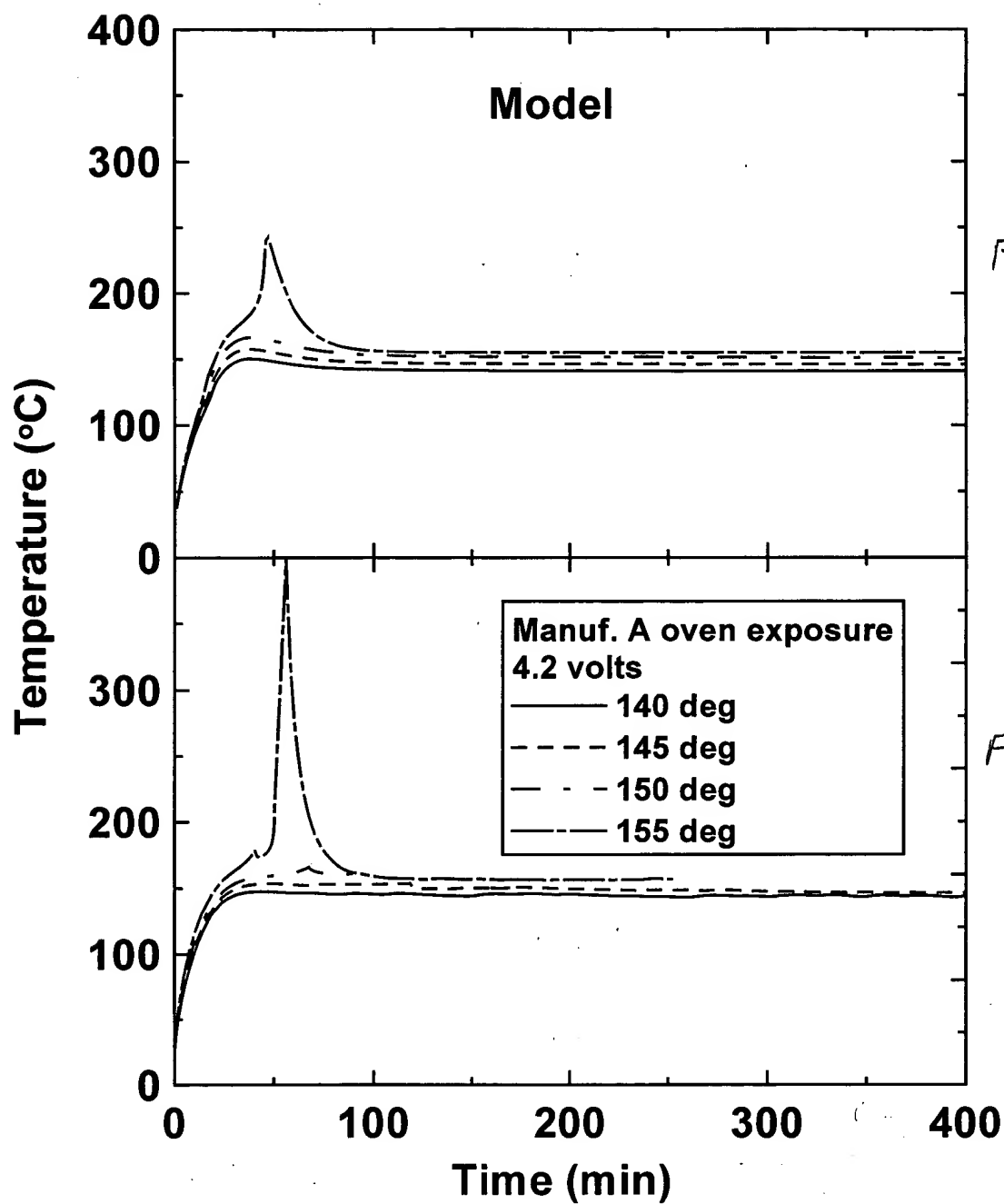


FIG. 9

65622T-695E2460



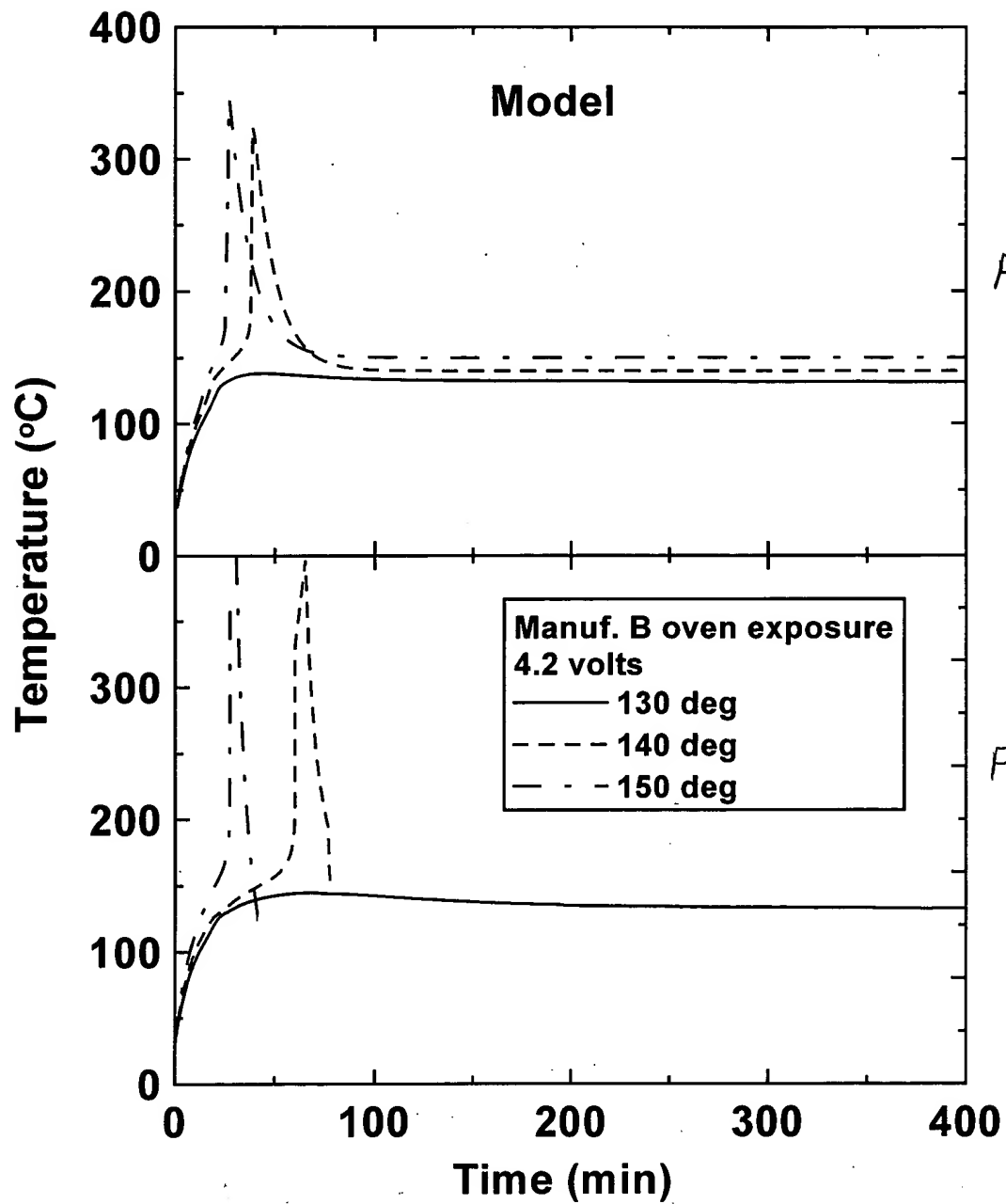


FIG. 11A

FIG. 11B

SCANNED

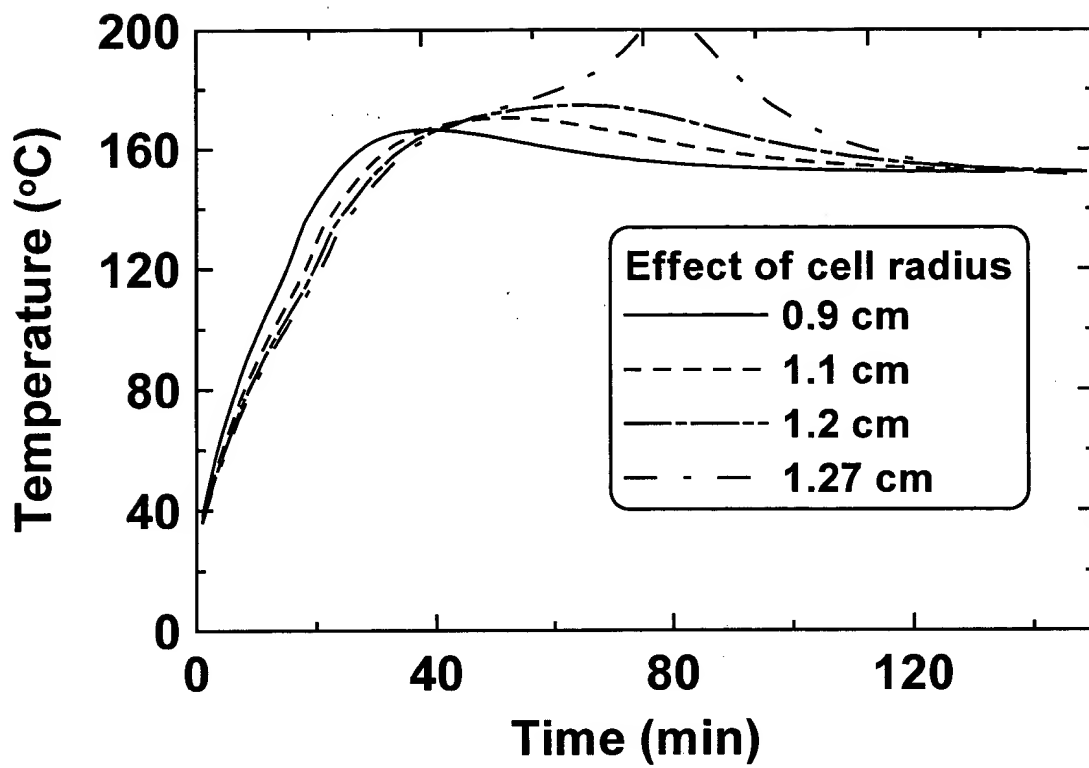


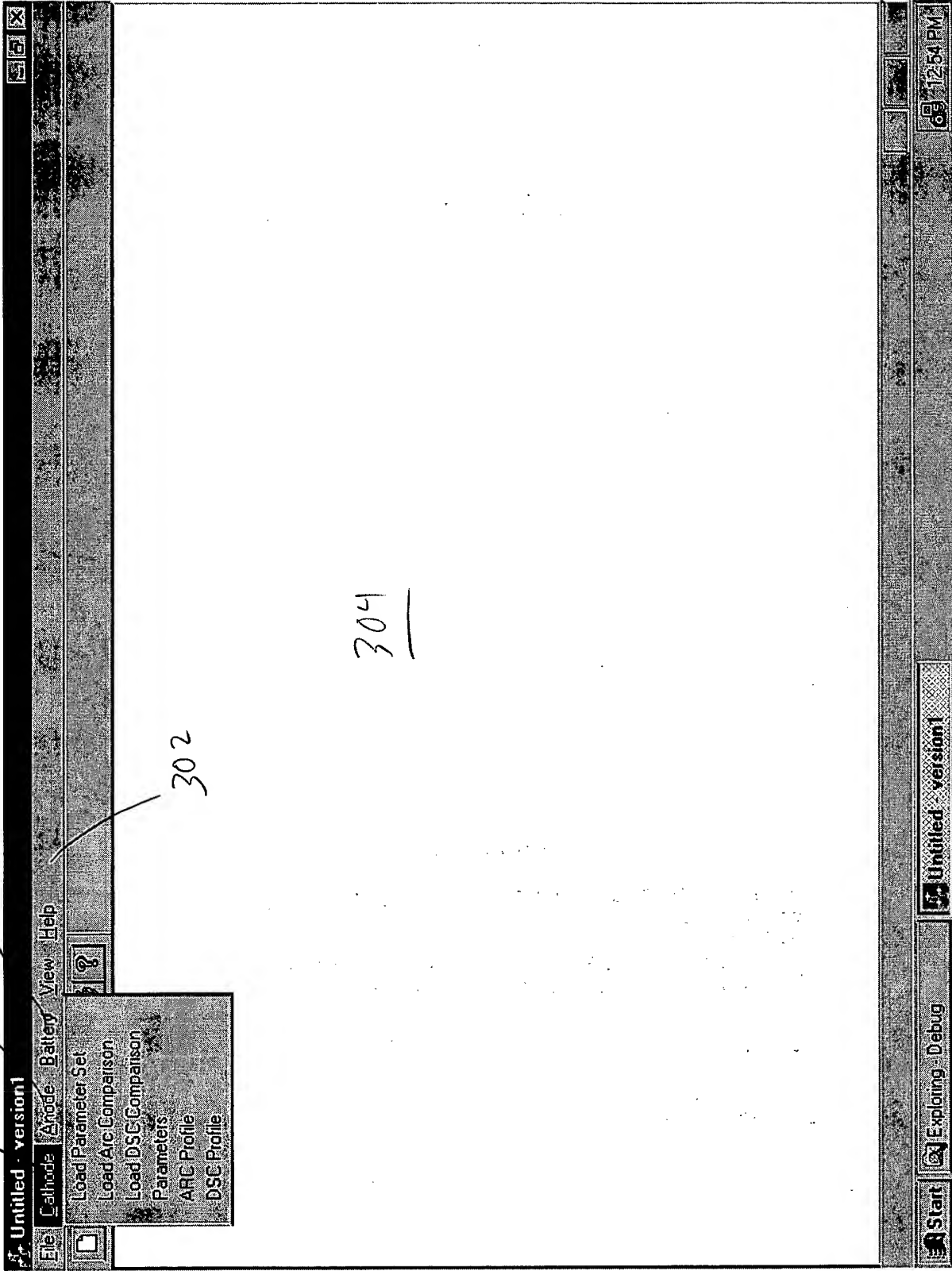
FIG. 12

65622T" 695E460

306 / 307 — 309

F16.13

✓ 300



302

304

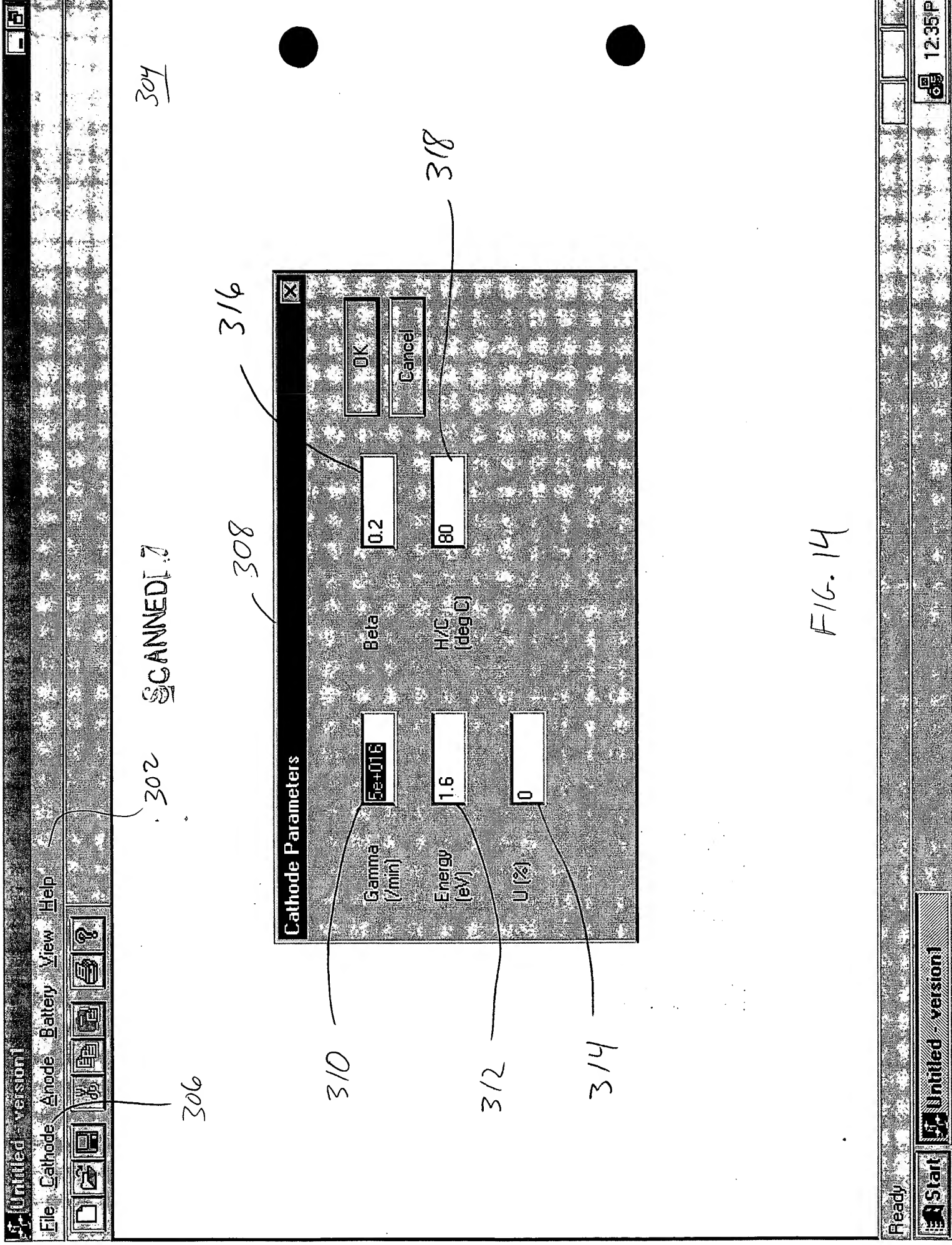


FIG. 14

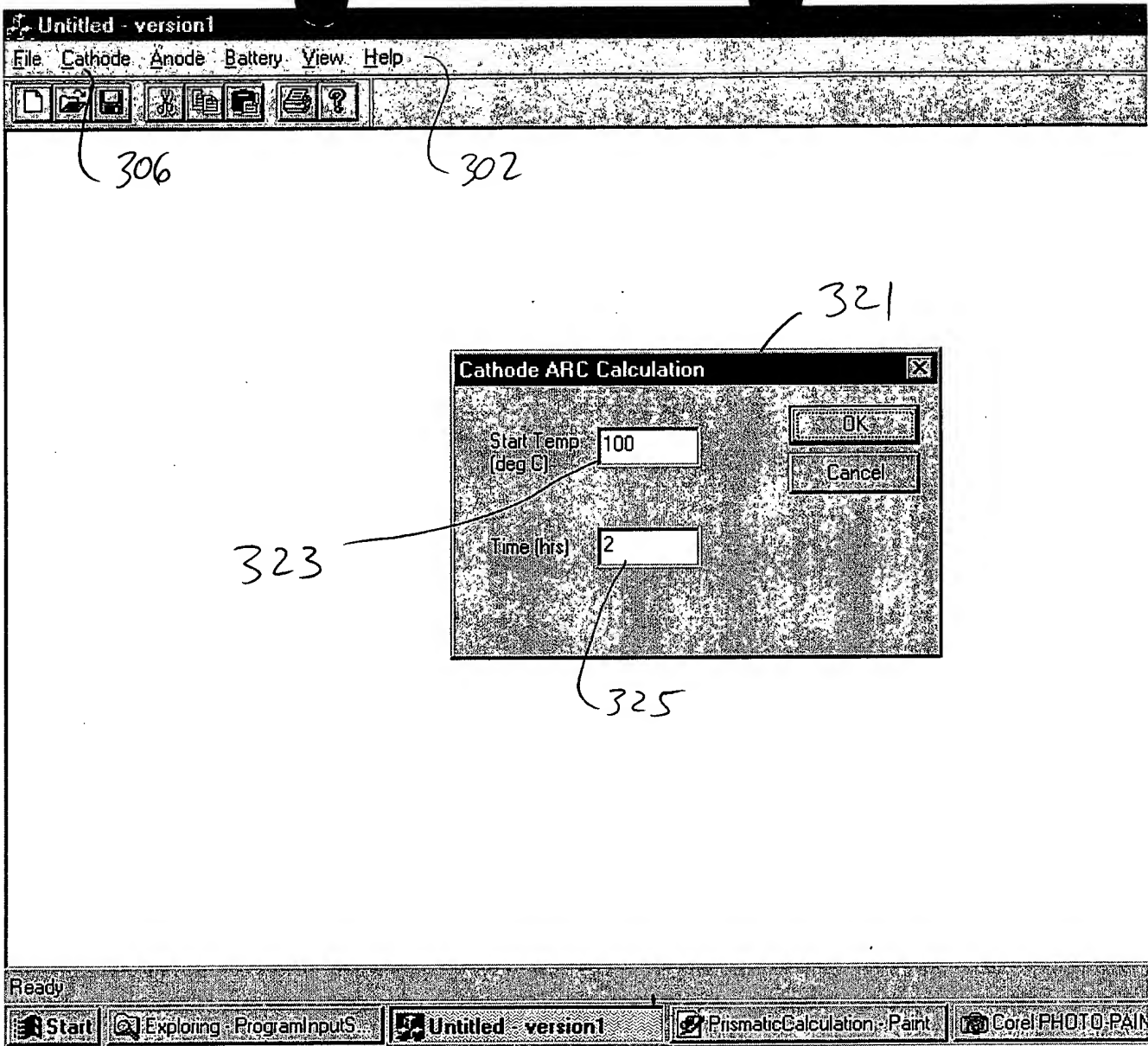


FIG. 15

SCANNED 77

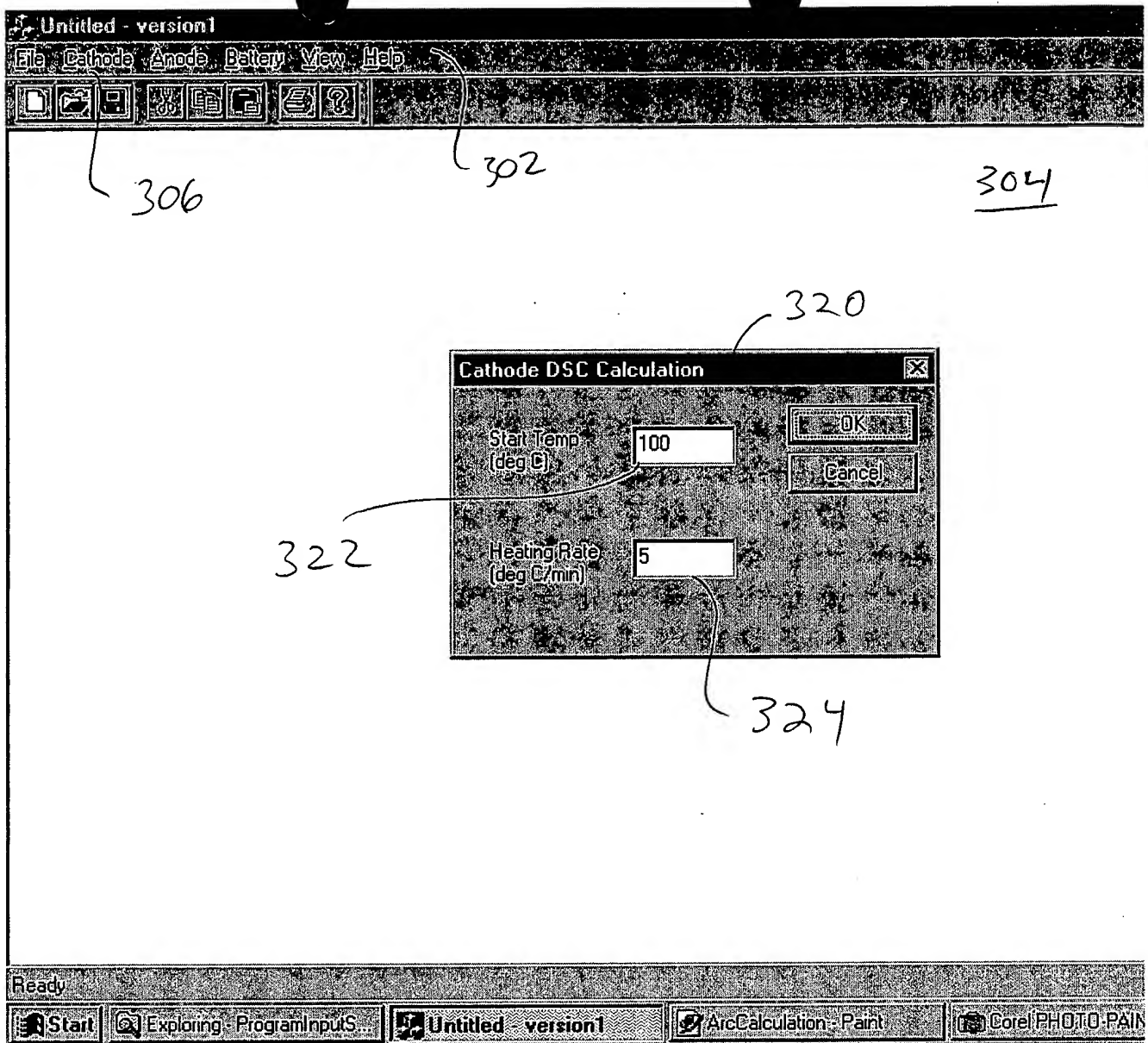
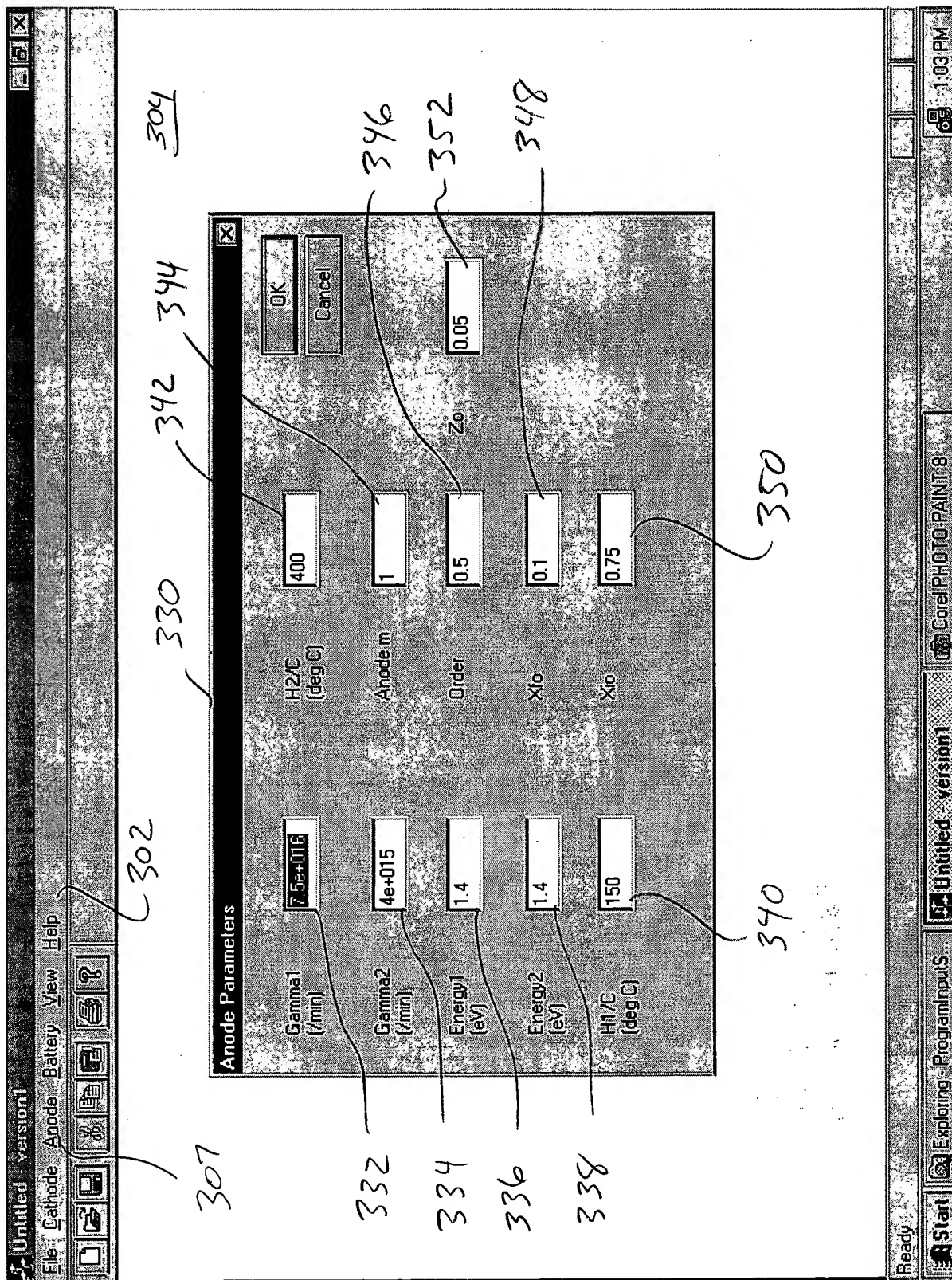


FIG. 16

65622T" 695E 2460
FIG. 17



309

Untitled - version1

File Cathode Anode Battery View Help

302

362 364 366 380 382

360 368 370

304

374 372 376

390

384 386 388 392 394

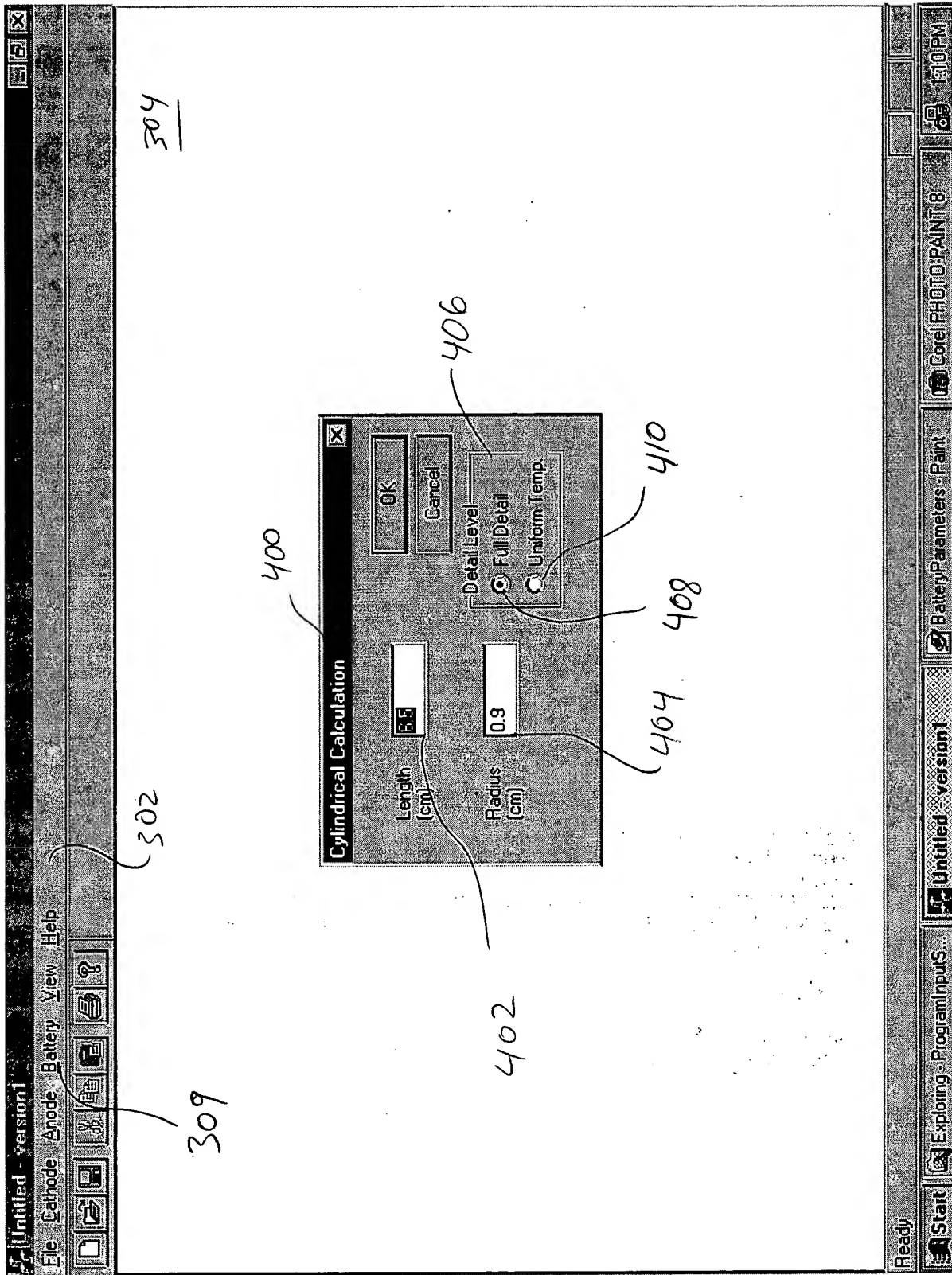
Ready

Start Exploring - ProgramInputs... Untitled - version1 Core PHOTO-PAINT 8 1:08 PM

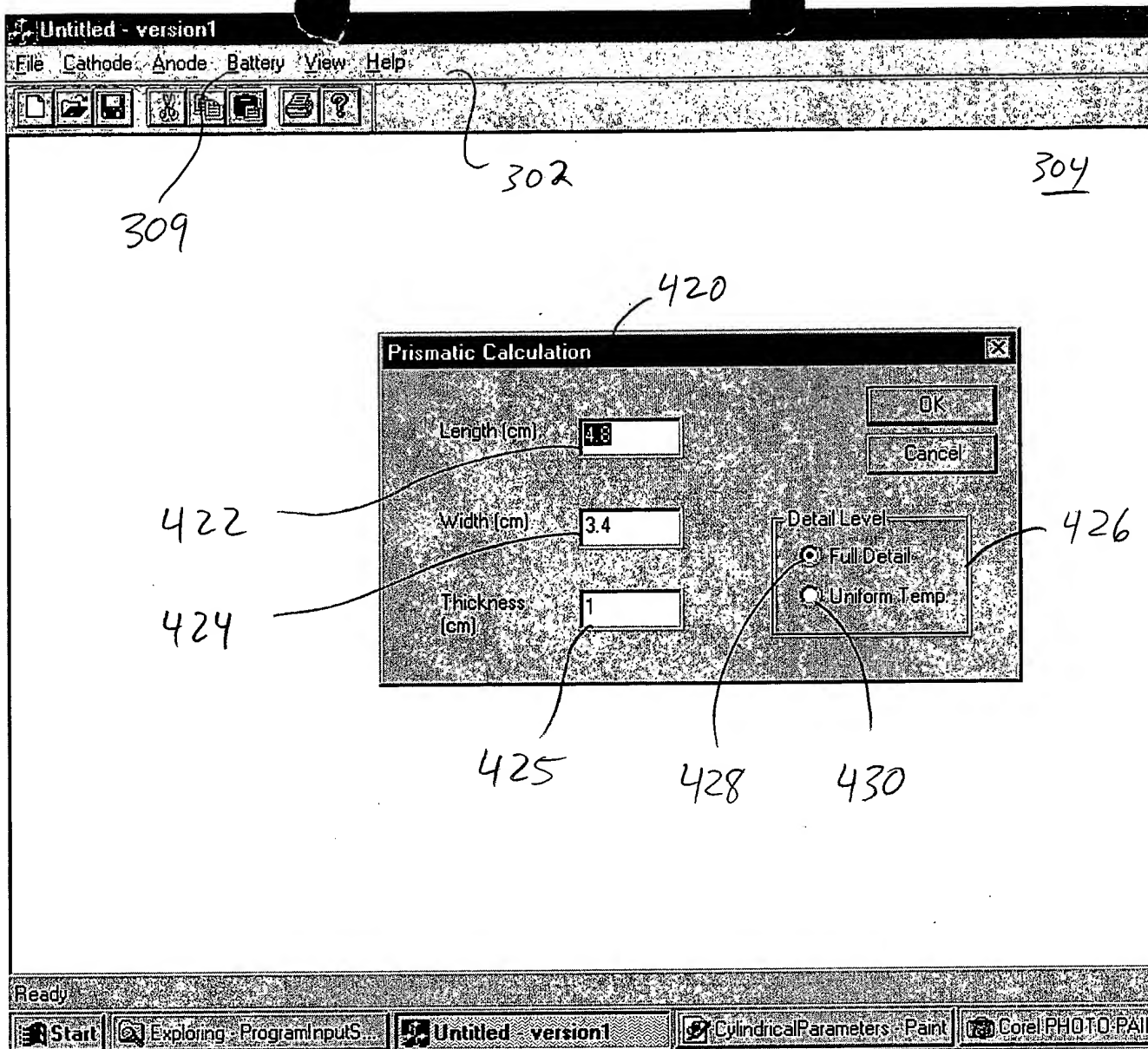
Battery Parameters

| | | | | | |
|----------------------|-------|-------------------------------|-------|----------------------|------------------------------------------------------------------------------|
| Time (hrs) | 6 | Carbon Mass (g) | | OK | Cancel |
| Start Temp (deg C) | 28 | Cobalt Mass (g) | 12 | Conductivity (W/cmK) | 0.034 |
| Oven Temp (deg C) | 150 | Heat Capacity (J/gK) | 1 | Density (g/cc) | 2.58 |
| Can Parameters | | | | | |
| Density (g/cc) | 7.917 | Surface Conductivity (W/cm2K) | 0.002 | Geometry | <input checked="" type="radio"/> Cylindrical <input type="radio"/> Prismatic |
| Heat Capacity (J/gK) | 0.46 | Conductivity (W/cmK) | 0.14 | | |

556221" 595E 4490 F76.19



09473569.122999



F16. 20